

USSN 09/729,226

1. Claim 1 has been amended to address the description rejection. As amended, it refers to DNAs obtainable using the probes disclosed on page 8, precisely as taught on page 9.

New claim 11 overcomes the rejection in a different manner, as it refers to the polypeptide sequence disclosed on page 11.

Claim 11 does not require that the expression vector encode a naturally occurring "full-length size protein". The skilled worker can readily synthesize DNA to encode a polypeptide comprising one or more of the disclosed repeat sequences.

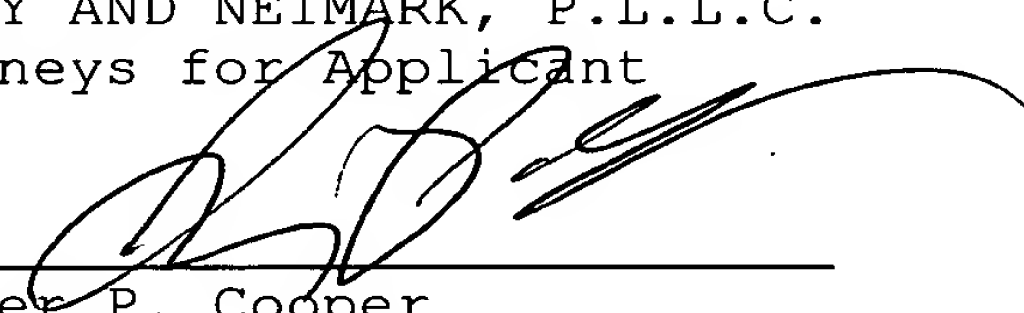
2. It is believed that the amendment to claim 2 overcomes the 112/1 rejection, warranting rejoinder of claims 2-10.

3. Once prosecution on the merits is otherwise complete, Applicants will supply the terminal disclaimer.

Attached hereto is a marked-up version of the changes made to the specification and claims by the current amendment. The attached page is captioned "Version with markings to show changes made".

Respectfully submitted,

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VERSION WITH MARKINGS TO SHOW CHANGES MADE

In the claims:

Claim 1 has been amended as follows:

1 (amended). An expression vector which is a recombinant DNA molecule or a purified DNA molecule, other than a whole chromosome, comprising a promoter sequence operably linked to a coding sequence, said coding sequence encoding a polypeptide comprising the core protein of a human polymorphic epithelial mucin, which core protein is specifically bound by monoclonal antibody SM3, said coding sequence being obtainable by screening a cDNA library derived from human breast cancer cell line MCF-7 for a cDNA corresponding to said coding sequence, said corresponding cDNA being identified by hybridization to a hybridization probe comprising

a) the DNA sequence

5'

ACC GTG GGC TGG GGG GGC GGT GGA GCC CGG-

GGC CGG CCT GGT GTC CGG GGC CGA GGT GAC-

ACC GTG GGC TGG GGG GGC GGT GGA GCC CGG-

GGC CGG CCT GGT GTC CGG GGC CGA GGT GAC 3', or

b) DNA complementary to the DNA of a), i.e. of sequence

5'

GTC ACC TCG GCC CCG GAC ACC AGG CCG GCC-

CCG GGC TCC ACC GCC CCC CCA GCC CAC GGT-

GTC ACC TCG GCC CCG GAC ACC AGG CCG GCC-

CCG GGC TCC ACC GCC CCC CCA GCC CAC GGT 3'.

Claims 11-14 have been added.